

**ABSTRACT**

An auto-enrichener for an engine, including an enriching conduit for carrying fuel and air to an engine, and a valve disposed in the conduit. The valve is adjustable between at least an open configuration and a closed configuration. In the open configuration passage of fuel and air through the conduit is enabled, and in the closed configuration passage of fuel and air through the conduit is not enabled. The auto-enrichener also includes a thermal expansion element in communication with the valve. The thermal expansion element expands with increasing temperature and contracts with decreasing temperature to activate the valve. The auto-enrichener also includes a heater that heats the thermal expansion element when the engine is operated.